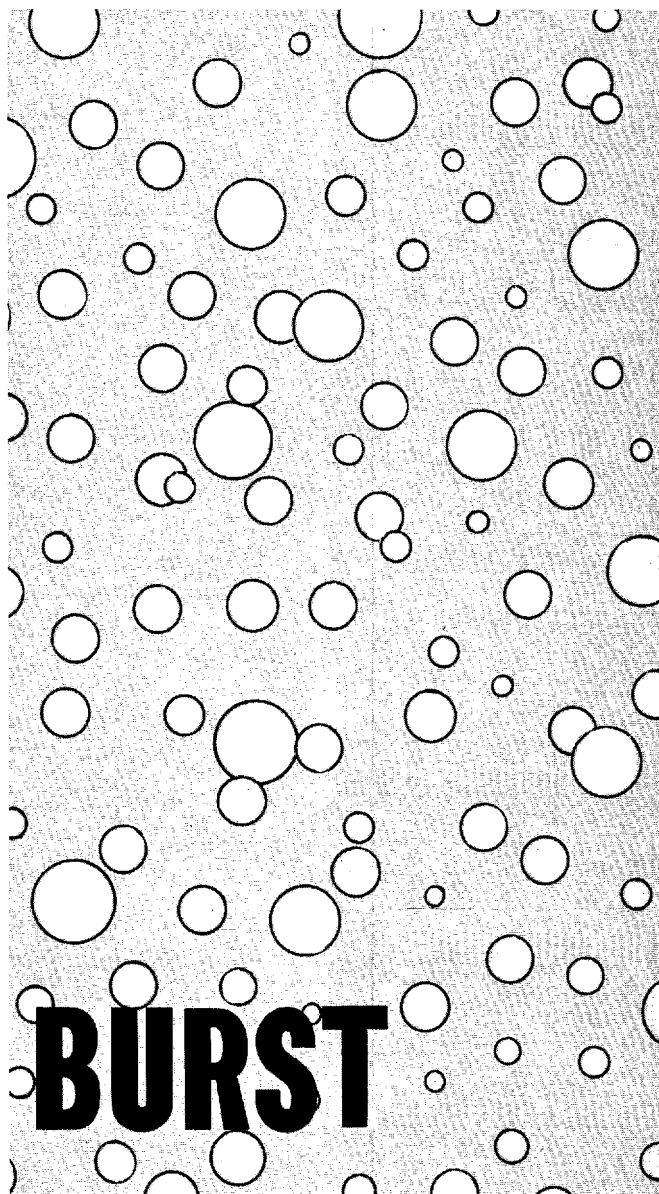


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# NITROGEN BURST

**for perfect processing!**

NEW ADDRESS  
GRAFIC EQUIPMENT CO.  
1511 W. LAWRENCE AVE.  
CHICAGO , ILL.



**GRAFIC PRODUCTS, Inc.**

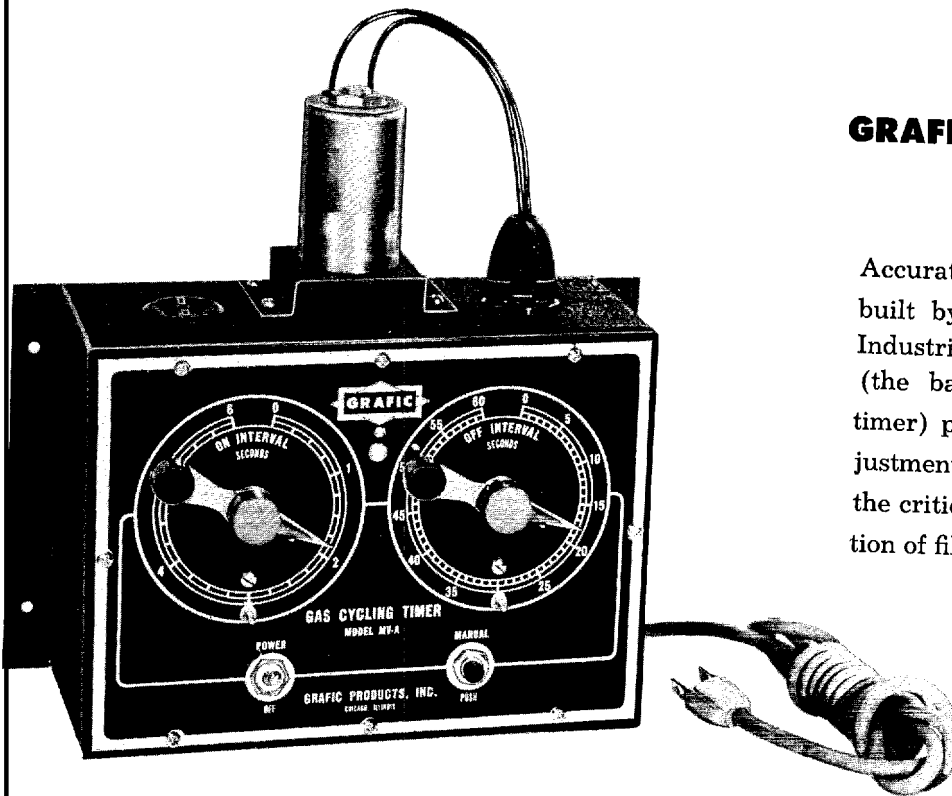
4044 S. Michigan Ave. • Chicago 15, Illinois

Grafic maintains its own working photographic laboratory at their plant, and all are invited to stop in and inspect all Grafic equipment, under conditions of actual use.

# AUTOMATION IN AGITATION by GRAFIC

Born of necessity for color, proven as the most uniform, dependable, worksaving method for any process, black-and-white or color—That is Nitrogen Agitation.

This brochure shows a complete line of equipment for this revolutionary technique, the result of two years research and development by Grafic Products Inc., a pioneer in automatic agitation equipment.



## GRAFIC GAS CYCLING TIMER MODEL MV-A

Accurate and reasonably priced, this unit, built by Grafic around two dependable Industrial Timer Corporation movements (the basis of the famous Time-O-Lite timer) provides continuously variable adjustment of both time intervals to satisfy the critical requirements for proper agitation of film materials. No warm-up period

is required, and timing intervals do not change with age. Attractive engraved metal face-plate will wear indefinitely, insuring legibility of the markings after years of service. Heavy gauge cabinet

finished in durable baked wrinkle enamel. Timing range: 0 to 6 seconds for the "On" interval; 0 to 60 seconds for the "Off" interval. Gas control solenoid valve, furnished with the unit, can be removed for remote mounting. Two outlets provide for operation of additional control solenoid. Manual operation is by push-button switch: forgetfulness or accident cannot cause loss of gas. For 105-125 volt, 60 cycle A.C. only.

List.....\$110.00

Additional solenoids — For controlling additional lines, air lines, etc. Catalog No. N-405.

List..... 16.00

## GRAFIC GAS DISTRIBUTING PLENUMS

Grafic plenums are formed from a single piece of inert, durable plastic tubing. Close spaced, parallel legs ensure more even distribution of gas. There are no cemented or bonded parts that may fail in use, and they are practically indestructible. The models listed are stocked as standard. All are of the removable style, which Grafic, through extensive tests under conditions of actual use, has found to be the most practical — this style is easy to remove for draining and cleaning, and there are no tank leakage problems. By using a portable plenum, one unit can be made to perform the job of several.

Besides those shown, other sizes and styles, including "built-in" models, can be supplied on special order.

### GRAFIC PLENUM MODEL SP-30

Standard 3½ gallon unit for stationary uses with film hangers and racks, reel racks, etc., or for stationary or portable uses with Eastman Type C Processing Baskets. (Plenum can be attached to Type C basket with Nylon fishline.)

List.....\$18.00

### GRAFIC PORTABLE PLENUM MODEL MP-31

3½ gallon portable unit. Fits *inside* the Eastman Kodak #4A Film Hanger rack with no loss of film capacity. This plenum is carried along with the rack. A clip for holding the plenum in place, and handles for the rack are included with the unit.

Drilling of Four Holes in the Rack is Required for the Installation of the Handles.

List.....\$20.00

### GRAFIC PORTABLE PLENUM and HANGER RACK ASSEMBLY MODEL PB-32

Complete assembly of #4A Rack with portable model plenum described above, with clip and handles installed, and with test strip holder.

List.....\$29.50

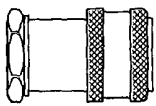
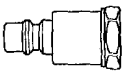
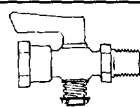


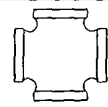



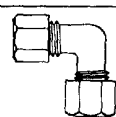


# GRAFIC GRAF-TEC

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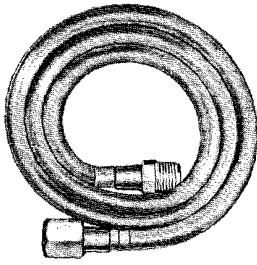
## FITTINGS FOR INSTALLATION OF NITROGEN AGITATION EQUIPMENT

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See diagrams on page 5 for applications of fittings. All are chrome plated.  
Material is brass except where specified as other. All pipe threads are  $\frac{1}{4}$ " , and  
all tubing fittings accept  $\frac{3}{8}$ " O.D. tubing.

DRAWING KEY	CATALOG NO.	DESCRIPTION	DIAGRAM	LIST PRICE EACH
A	N-410	Quick-Disconnect Socket. Used on the supply line in portable plenum installations, as shown in the drawing. Of Chrome plated steel. Valve shuts off gas automatically when disconnected.		\$4.80
B	N-411	Quick-Disconnect Plug. Used in conjunction with the socket above, this plug, fastened to the plenum hose, can be instantly connected and released by fingertip action. Chrome plated steel.		1.30
C	N-416	Petcock. Provides shut-off control for stationary plenums. Female pipe thread one end, male on other.		1.95
D	N-420	Tubing Connector. Special fitting used to connect plastic tubing to various fittings, as shown.		.98
E	N-431	Support Plate. Fastens to wall, studs, sink, etc., for supporting fitting assemblies. Chrome plated malleable iron.		.61
F	N-432	Cross. Provides "backbone" for assemblies, as shown in diagrams.		.88
G	N-433	Close Nipple. Used for connecting Quick-Disconnect Socket to Cross, as shown in diagram.		.29
H	N-434	Solid Close Nipple. This special fitting serves as a plug as well as a support. Used in conjunction with the Support Plate.		.45
J	N-435	Plug. One of these are required in the last outlet of each installation, as shown in the diagram.		.24
K	N-450	Type R Tubing. Clear, rigid plastic tubing recommended for making neat, straight runs. Can also be used for making bends by the use of Tubing Elbows described below, or by heating tubing and then bending. Sold in 6 foot lengths only.		.28/Ft.
L	N-451	Type F Tubing. An opaque, flexible plastic tubing used for inter-connecting lines where bends are involved. Plastic support clips (1 clip per 2 feet) are provided with tubing. Sold in multiples of 1 foot.		.18/Ft.
	N-421	Tubing Ell. For use with tubing described under K above when bends are to be made.		.98
	N-422	Tubing Union. These fittings are used for joining lengths of plastic tubing, described under K above, when making runs over 6 feet.		.75
	N-436	Street Ell. In some installations it is more convenient to use this fitting between the cross and petcock as shown in the diagram.		.45

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### HOSE ASSEMBLIES FOR PLENUMS

Made from extra-flexible plastic tubing, and chrome-plated brass fittings. Used for connecting plenums to gas lines or manifolds. 1/4" female pipe thread one end, 1/4" male on other.

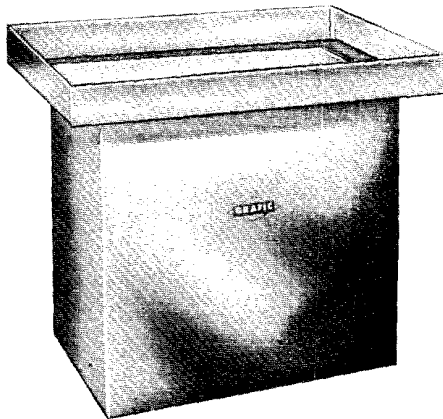
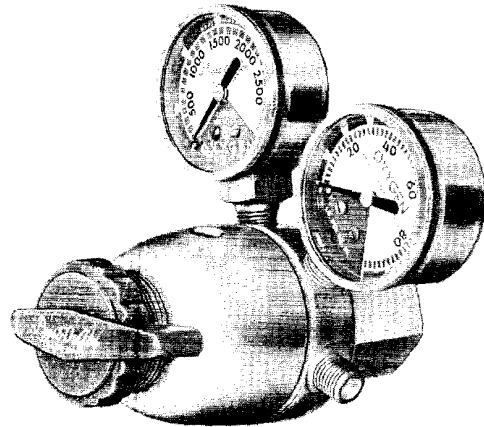
Standard 3 foot hose, Model VH-3  
List .....\$2.65

For longer assemblies, add for  
each additional foot ..... .90

### GRAFIC GAS REGULATOR VALVE MODEL GN-6

A trim, modern appearing unit tailored in size to the requirements of nitrogen agitation. One gauge shows the volume of gas remaining in the tank; the other, the pressure in the line from 0 to 100 lbs. For use with Linde Gas Cylinders only. An adapter can be obtained for use with other cylinders.

List .....\$32.90



### SPECIAL EQUIPMENT

#### 3 1/2 Gallon 8 x 10 Lipped Tank, Model 65-NS

Some users of nitrogen agitation prefer a lipped tank for chemicals so that no solution will be lost by the lifting action of the gas when high pressures are used. Made from Type 316 stainless steel.

List .....\$28.75

Model 65FL Floating Lid... 6.05

Model 65NSC Cover ..... 7.55

For water jackets, washers and other processing equipment see Grafics General Catalog.

### REEL ADAPTERS FOR PROCESSING ROLL FILM IN NIKOR REELS

These adapters fit inside the Eastman #4A Hanger Rack, with or without the portable plenum. Can also be used without the rack with the handle provided. Made of Type 316 stainless steel.

Model 120-ND. For 120 reels and  
20 exposure 35mm reels.

List .....\$21.50

Model 35-ND. For 35mm 36 ex-  
posure reels.

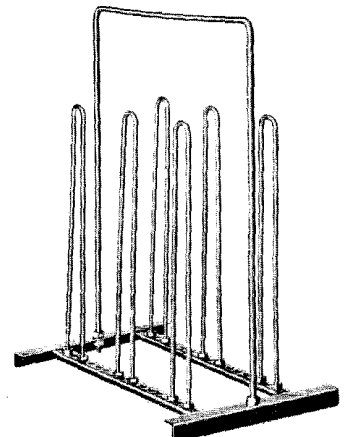
List ..... 20.00

35mm spindles for use with 120 ad-  
apter. Catalog No. 35-S.

List .....\$1.00 ea.

120 spindles for use with 35mm ad-  
apter. Catalog No. 120-S.

List ..... 1.25 ea.



Grafic Products also manufactures a full line of tanks, trays, sinks, and other photographic laboratory equipment. Write for General Catalog.

**INSTALLATION DIAGRAMS**

Key letters apply to fittings listed on page 6.  
Other equipment is described on pages 2, 3 and 4.

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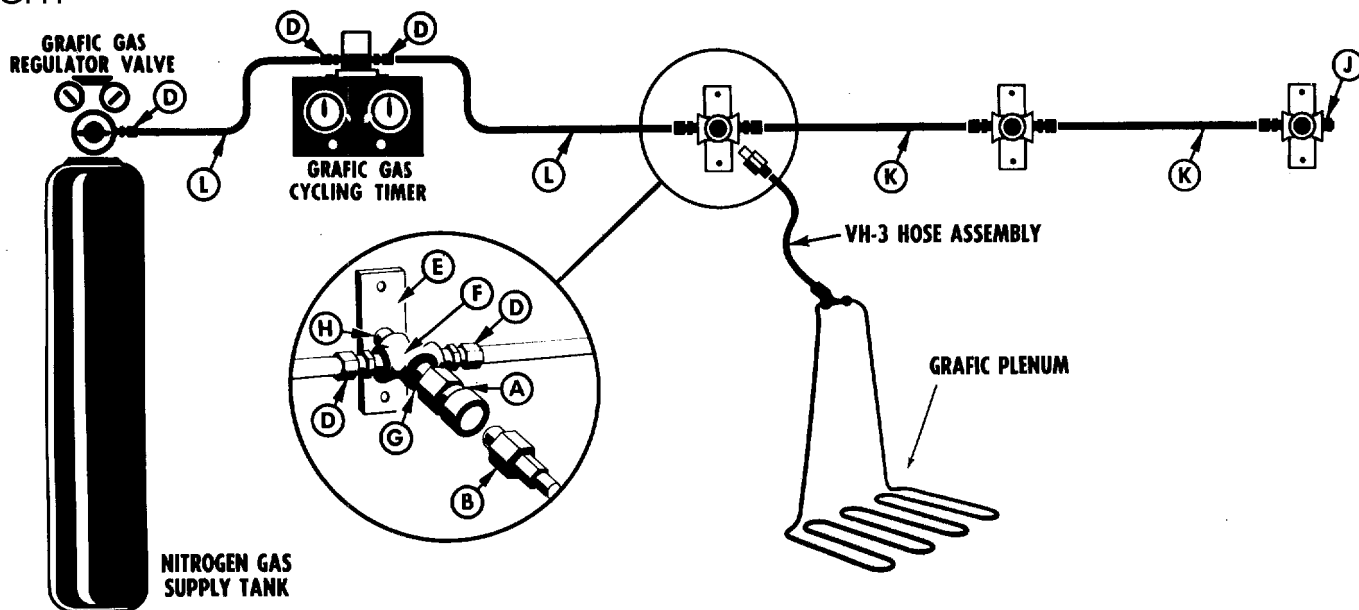


Diagram of typical portable plenum installation where plenum is moved along with the material being processed. Any number of outlets can be connected in series. Maximum convenience is provided with an individual outlet for each solution, but a single outlet can be used for 2 or 3 tanks.

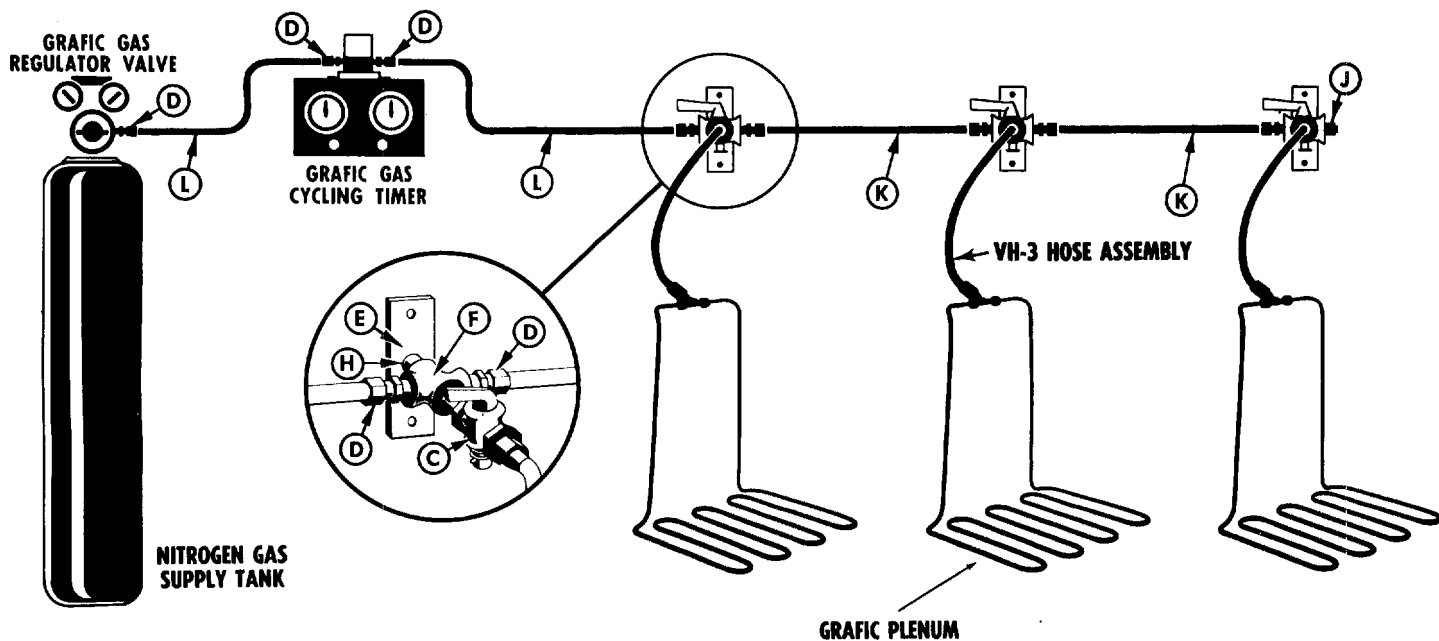


Diagram of typical stationary plenum installation. An outlet is required for each solution to be agitated. If only a single plenum is to be used, it can be connected directly to the timer.

For special installations, such as incorporating air with gas, running more than one line from a single gas tank, etc., write for bulletin No. 658.